

**COL2A1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1418b****Specification**

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**COL2A1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P02458](#)**COL2A1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 1280**Other Names**

Collagen alpha-1(II) chain, Alpha-1 type II collagen, Collagen alpha-1(II) chain, Chondrocalcin, COL2A1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1418b](/product/products/AP1418b) was selected from the C-term region of human COL2A1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**COL2A1 Antibody (C-term) Blocking Peptide - Protein Information****Name** COL2A1 ([HGNC:2200](#))**Function**

Type II collagen is specific for cartilaginous tissues. It is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces.

**Cellular Location**

Secreted, extracellular space, extracellular matrix {ECO:0000255|PROSITE-ProRule:PRU00793}

**Tissue Location**

Isoform 2 is highly expressed in juvenile chondrocyte and low in fetal chondrocyte.

## **COL2A1 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **COL2A1 Antibody (C-term) Blocking Peptide - Images**

## **COL2A1 Antibody (C-term) Blocking Peptide - Background**

Alpha-1 chain of type II collagen is a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutant forms of this protein are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with chondrodysplasia.

## **COL2A1 Antibody (C-term) Blocking Peptide - References**

Olavarrieta,L., Clin. Genet. 73 (3), 262-267 (2008)McAlinden,A., Hum. Mutat. 29 (1), 83-90 (2008)Forzano,F., Am. J. Med. Genet. A 143 (23), 2815-2820 (2007)